

CLEANUP - CLEAN AIR DIESEL EMISSIONS & GREENHOUSE GAS REDUCTIONS

Renewable Energy **Technologies**

The goal of Cleanup—Clean Air is to encourage, facilitate, and support diesel emissions and greenhouse gas reductions technologies and practices at Superfund cleanup and redevelopment sites.

How can Superfund Reduce Air Pollution?

GENERATE renewable energy on-site

CONSERVE energy by using energy efficient equipment and lighting and reducing energy use

DESIGN GREEN BUILDINGS to dramatically reduce energy consumption and costs





Cleanup-Clean Air website: www.epa.gov/region9/cleanup-clean-air

What are Renewable Energy Sources?

These sources naturally regenerate energy at the same or greater rate than the energy being consumed. While fossil fuels are quickly being depleted, renewable energy technologies provide a lasting source of energy. They include solar, wind, biomass, water, and geothermal sources. Energy from these sources can be used directly or converted into electricity.

Why Use Renewable Energy?

- Environmental cleanup systems can operate for years to decades. For longer-term cleanup systems, like groundwater pump-and-treat systems, renewable energy technologies, such as solar panels, can be used to augment the power supply.
- Choose renewable energy technologies for residential or commercial redevelopment projects to generate electricity onsite.
- Using renewable energy technologies reduces pollution and greenhouse gases from the burning of limited fossil fuels.
- · Reduce dependence on foreign resources.

www.windfarmersnetwork.org)

What are some Renewable **Energy Technologies?**

Solar panels on rooftops can provide a large amount of energy for a home or business and may make the electric meter run backwards: Cost: \$7-\$12 / watt before state and federal rebates Wind turbines harness wind energy. A single medium sized wind turbine with good wind conditions can provide enough energy for eight 3-bedroom homes; Cost: \$2,000-\$7,000 per kW (source:

Biomass energy can come from plants or animal manure. Electricity can be generated from methane gas that is produced as the biomass decomposes; Cost: ~ \$4000 per kW (source: www.epa.gov/agstar)

Funding Sources

Federal, State, and Local tax credits and rebates available for energy efficient buildings and/or installation of renewable energy technologies. www.dsireusa.org

For general information visit: For more information contact: